## **Material Safety Data Sheet**



# Urea, Crystal

**Revised:** 12/19/2012 **Replaces:** 12/19/2012 **Printed:** 06/21/2013

# Carolina Biological Supply Company

UAKULINA www.carolina.com

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

#### **Section 1 - Product Description**

**Product Name:** Urea, Crystal

**Product Code(s):** 89-7660, 20-2275, 68-4050, 89-7650, C10089

Size: Various

Chemical Name: Urea CAS Number: 57-13-6 Formula: CH4N2O Synonyms: Carbamide

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

Emergency Overview: Irritating to eyes, respiratory system and skin.

**Potential Health Effects:** 

**Eyes:** May cause irritation. **Skin:** Irritating to skin.

**Ingestion:** Harmful if swallowed. **Inhalation:** Irritating to respiratory system.

#### **Section 3 - Composition / Information on Ingredients**

**Principal Hazardous Components:** Urea (CAS# 57-13-6) 100%

**TLV units:** N/A **PEL units:** N/A

#### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. **Ingestion** - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

NFPA Rating: Health: 2 Fire: 1 Reactivity: 0

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**Extinguisher Media:** Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature: N/A** 

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

**Unusual Fire and Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

#### **Section 7 - Special Precautions**

**Precautions to Take in Handling or Storing:** Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A

NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes Mechanical(General): Yes

Special: No Other: No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

# **Section 9 - Physical Data**

Molecular Weight:60.06 g/molMelting Point:132 ?CBoiling Point:DecomposesVapor Pressure:N/A

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): N/A Percent Volatile by Volume: N/A Evaporation Rate (BuAc=1): N/A

**Solubility in Water:** Soluble **Appearance and Odor:** White, odorless crystals.

#### **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Oxidizers, Nitrites, Phosphorus Halides, Non-metal Salts,

Hazardous Decomposition Products: COx, NOx, NH3,

Hazardous Polymerization: Will not occur

# **Section 11 - Toxicity Data**

Toxicity Data: orl-rat LD50: 8471 mg/kg

**Effects of Overexposure: Acute:** See Section 2

Chronic: Tests on laboratory animals indicate material may produce adverse mutagenic and reproductive effects.

Conditions Aggravated by Overexposure: Respiratory disorders Cardiovascular system

**Target Organs:** Skin Eyes Respiratory system Mucous Membranes **Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

#### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

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## **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

#### **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:
Urea - No Urea - No

CERCLA Section 103 RQ(lb.): Urea - No

RCRA Section 261.33: Urea - No

#### **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

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